CLAIMS

What is claimed:

1	1. A vessel agitator assembly for a chemical analyzer, comprising:
2	a conveyor element which holds a plurality of vessels, said
3	conveyor element being moveable along a path; and
4	a vessel agitator positioned adjacent said conveyor element at a
5	location along said path where said plurality of vessels contact said vessel
6	agitator as said conveyor element moves along said path.
1	2. The vessel agitator assembly for a chemical analyzer as recited in claim
2	1 wherein said vessel agitator includes a plurality of troughs and
3	projections, whereby each of said plurality of vessels are caused to move in
4	direction generally perpendicular to said path by said plurality of troughs
5	and projections.
1	3. The vessel agitator assembly for a chemical analyzer as recited in claim
2	2, wherein vessel agitator is made from more than one component.
1	4. The vessel agitator assembly for a chemical analyzer as recited in claim
2	2, wherein distances between adjacent troughs in said vessel agitator is
3	variable.
1	5. The vessel agitator assembly for a chemical analyzer as recited in claim
2	2, wherein distances between adjacent projections in said vessel agitator is
3	variable.
1	6. The vessel agitator assembly for a chemical analyzer as recited in claim
2	2, wherein distances between adjacent troughs in said vessel agitator is
3	uniform.

- 7. The vessel agitator assembly for a chemical analyzer as recited in claim
- 2, wherein distances between adjacent projections in said vessel agitator is
- 3 uniform.
- 8. The vessel agitator assembly for a chemical analyzer as recited in claim
- 2, wherein a depth of troughs of said vessel agitator relative to said
- 3 conveyor is variable.
- 9. The vessel agitator assembly for a chemical analyzer as recited in claim
- 2, wherein a distance said projections project toward said vessel agitator
- 3 relative to said conveyor is variable.
- 1 10. The vessel agitator assembly for a chemical analyzer as recited in
- 2 claim 2, wherein a depth of troughs of said vessel agitator relative to said
- 3 conveyor is uniform.
- 1 11. The vessel agitator assembly for a chemical analyzer as recited in
- 2 claim 2, wherein said agitator assembly has a same number of bumps as a
- 3 number of vessel holders of said conveyor element.
- 1 12. The vessel agitator assembly for a chemical analyzer as recited in
- 2 claim 2, wherein a distance said projections project toward said vessel
- 3 agitator relative to said conveyor is uniform.
- 1 13. The vessel agitator assembly for a chemical analyzer as recited in
- 2 claim 1, wherein said vessel agitator is stationary.
- 1 14. The vessel agitator assembly for a chemical analyzer as recited in
- 2 claim 1, wherein a height of said vessel agitator relative to a height of said
- 3 conveyor is adjustable.

2	claim 1, wherein said path has one or more turns.
	•
1	16. The vessel agitator assembly for a chemical analyzer as recited in
2	claim 13, further comprising means for allowing the conveyor to follow a
3	path which is nonlinear.
1	17. The vessel agitator assembly for a chemical analyzer as recited in
2	claim 1, further comprising a housing, said conveyor and said vessel
3	agitator being positioned within said housing.
1	18. The vessel agitator assembly for a chemical analyzer as recited in
2	claim 16, wherein said vessel agitator is affixed to said housing.
	20, morem bard vesser agreator is arrived to said nousing.
1	19. The vessel agitator assembly for a chemical analyzer of claim 16,
2	wherein said housing is insulated.
1	20. The vessel agitator assembly for a chemical analyzer of claim 1,
2	wherein said chemical analyzer is an immunoassay analyzer.
	,
1	21. The vessel agitator assembly for a chemical analyzer of claim 19,
2	wherein said conveyor and said vessel agitator are positioned within an
3	incubator in said immunoassay analyzer.
1	22. A method of passively agitating vessels in a chemical analyzer,
2	comprising the steps of:
3	conveying one or more vessels held in a conveyor element along a
4	path; and
5	agitating said vessels with a vessel agitator positioned adjacent said
6	conveyor element at a location along said path where said plurality of

- 1 vessels contact said stationary vessel agitator as said conveyor element
- 2 moves along said path.